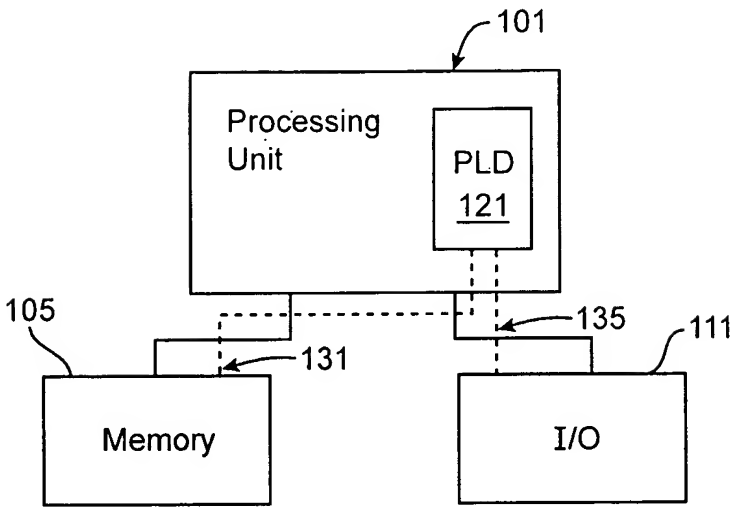


FIG. 1

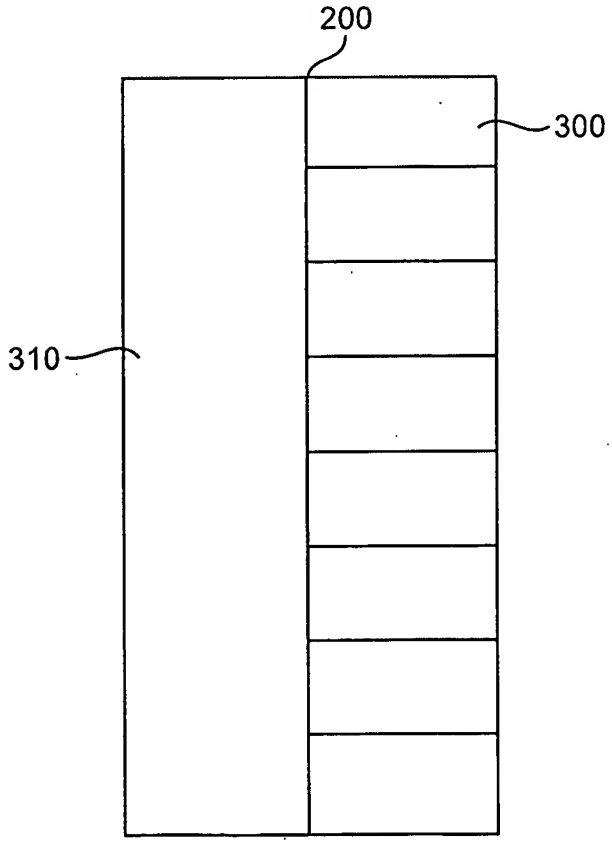


FIG. 3

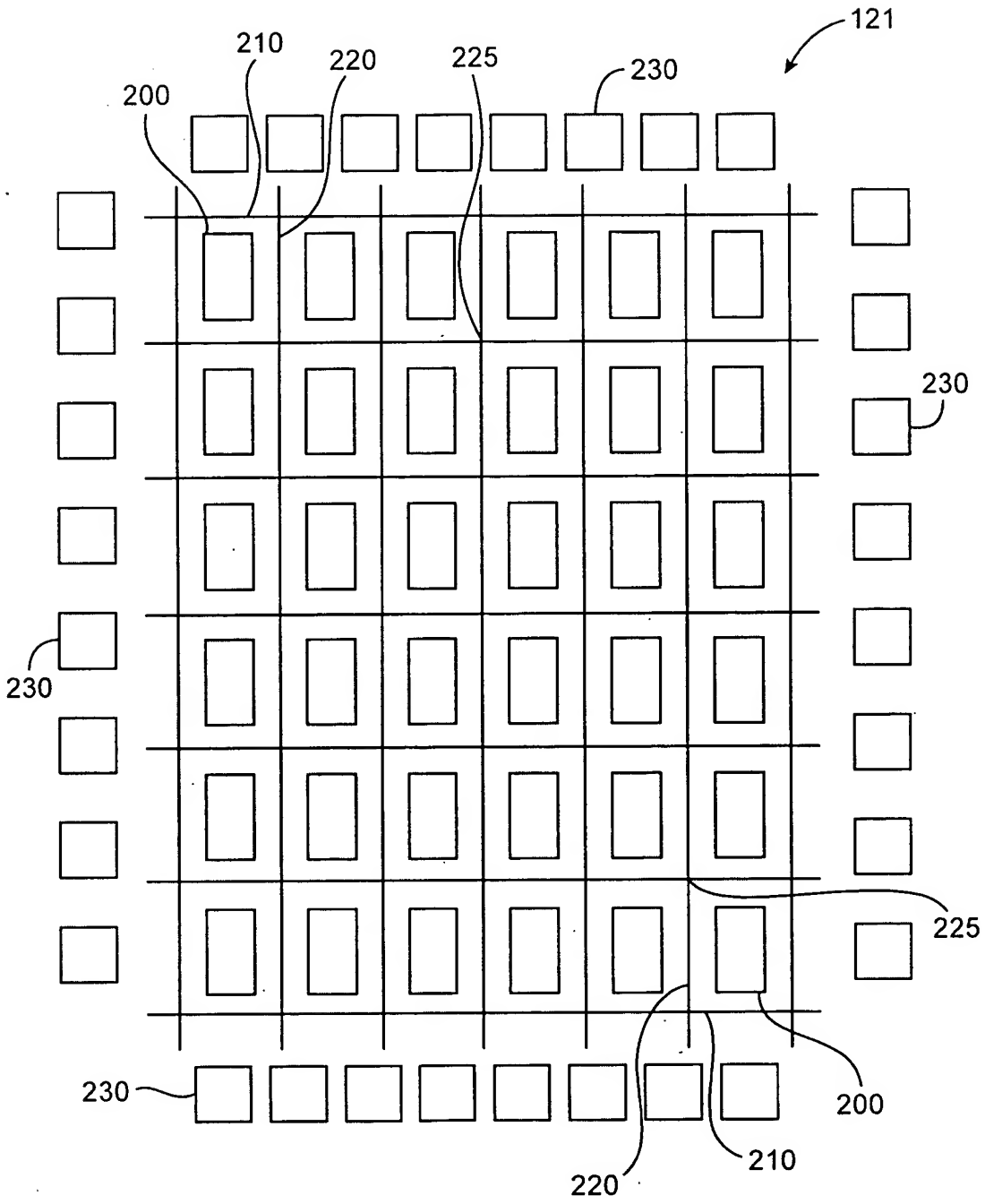


FIG. 2

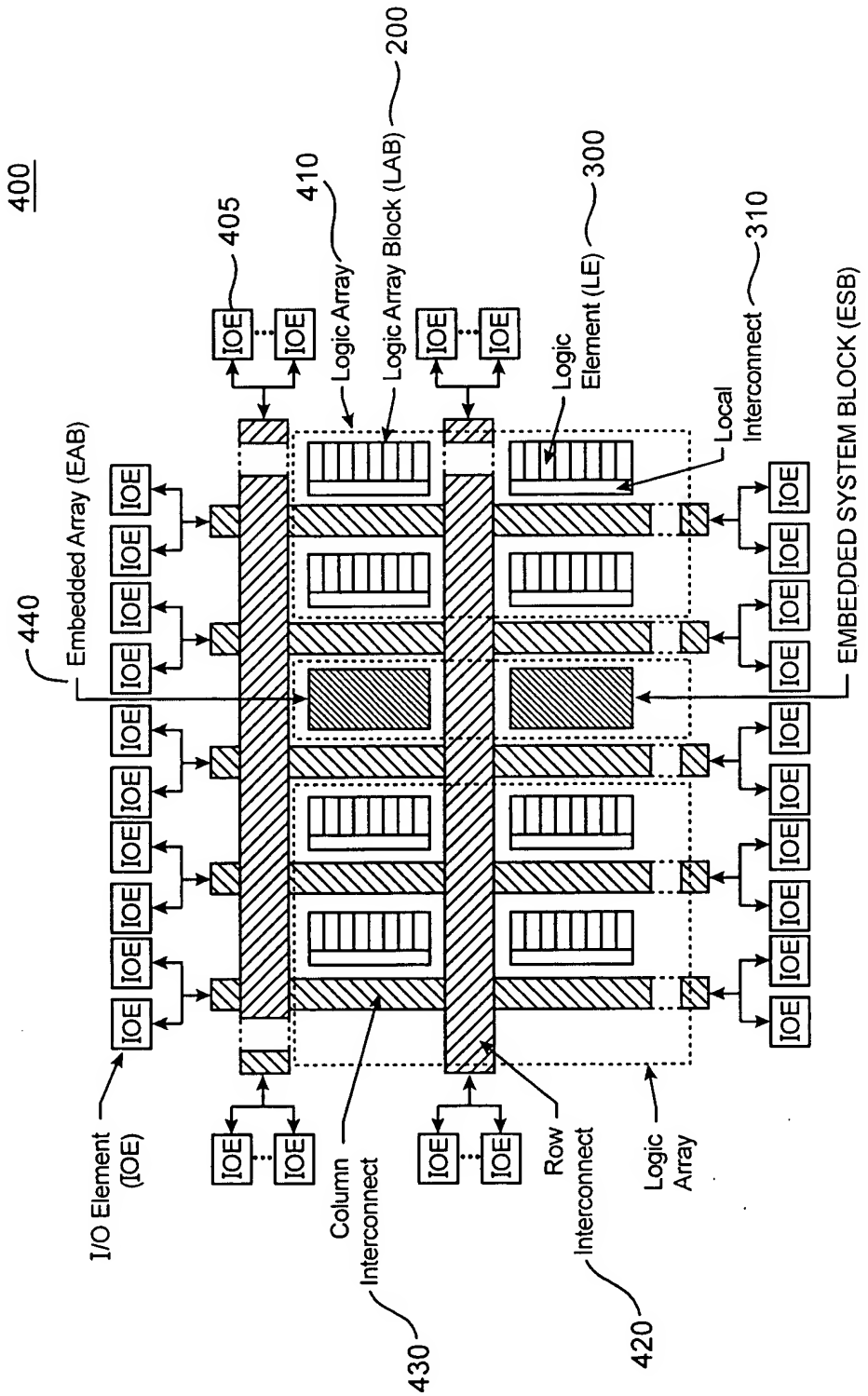


FIG. 4

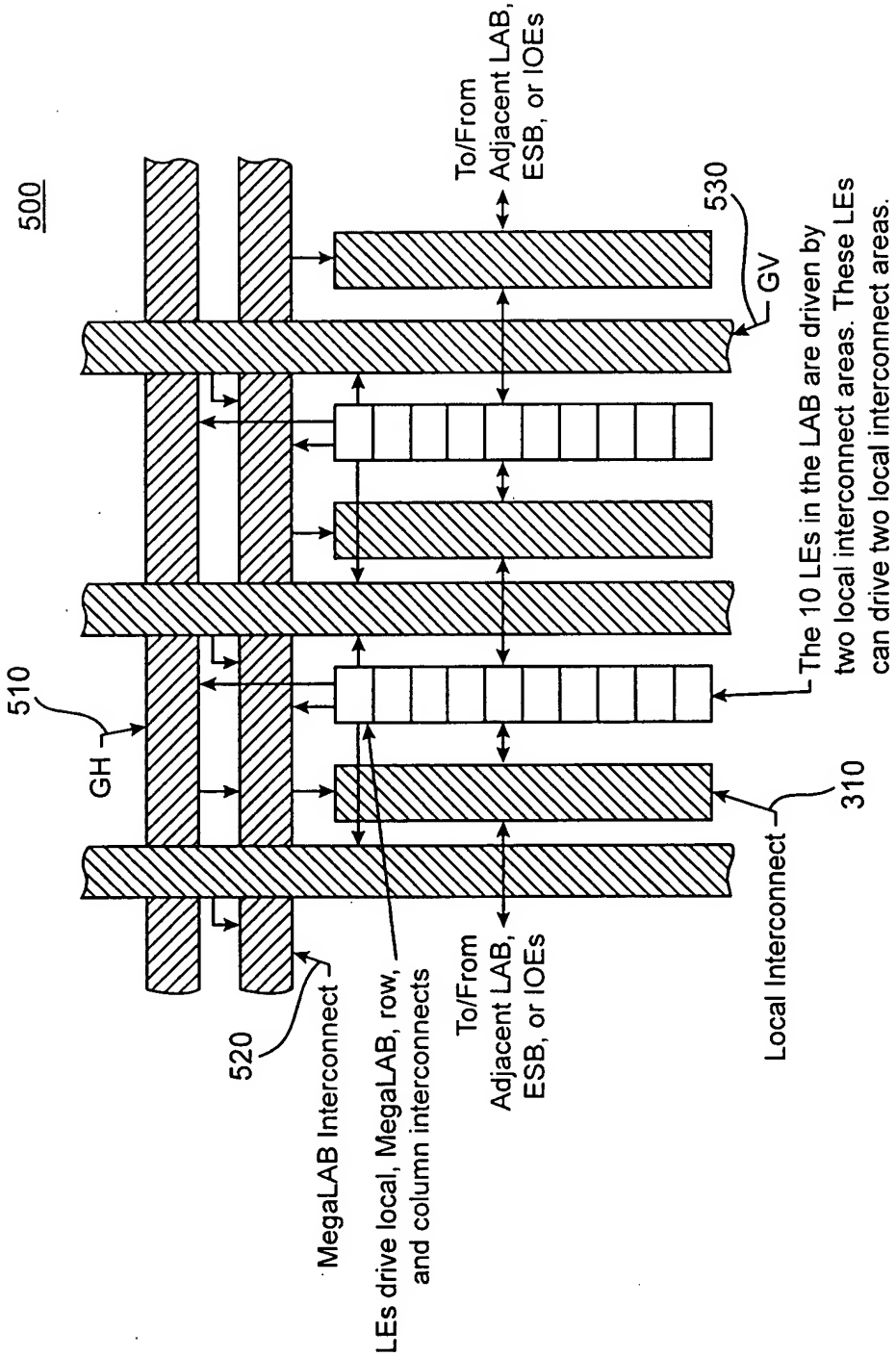


FIG. 5

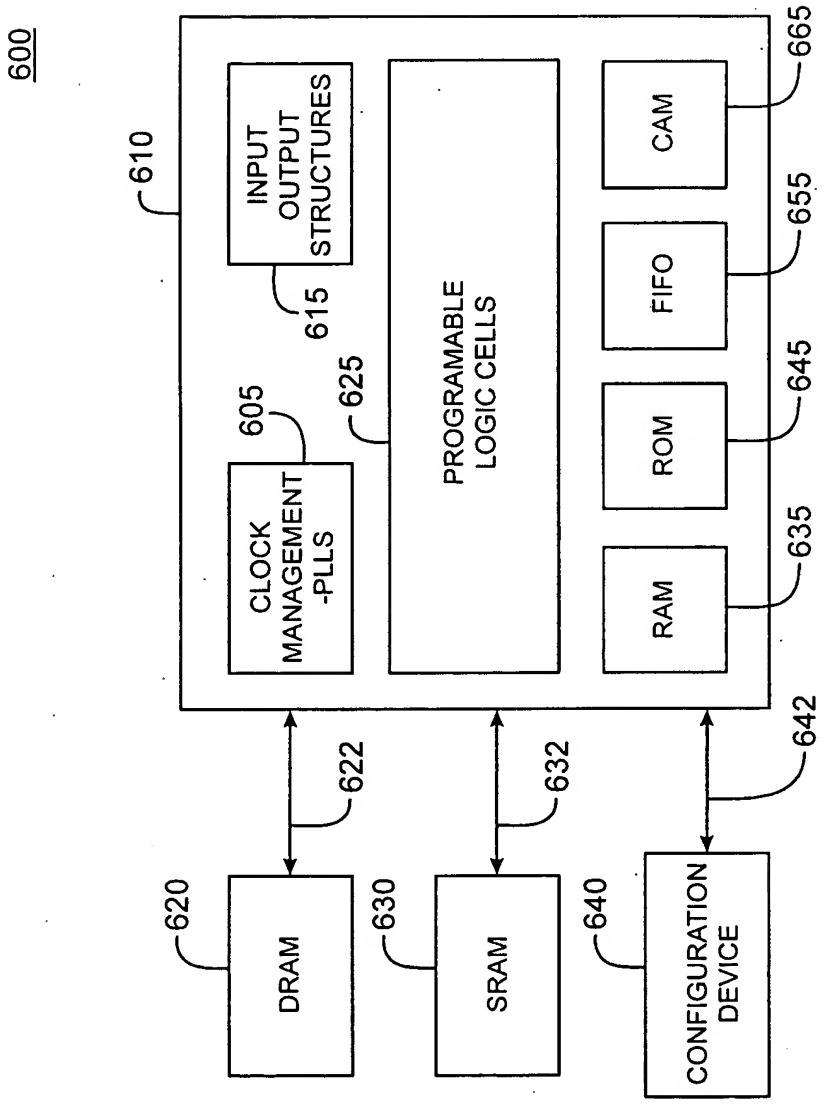


FIG. 6

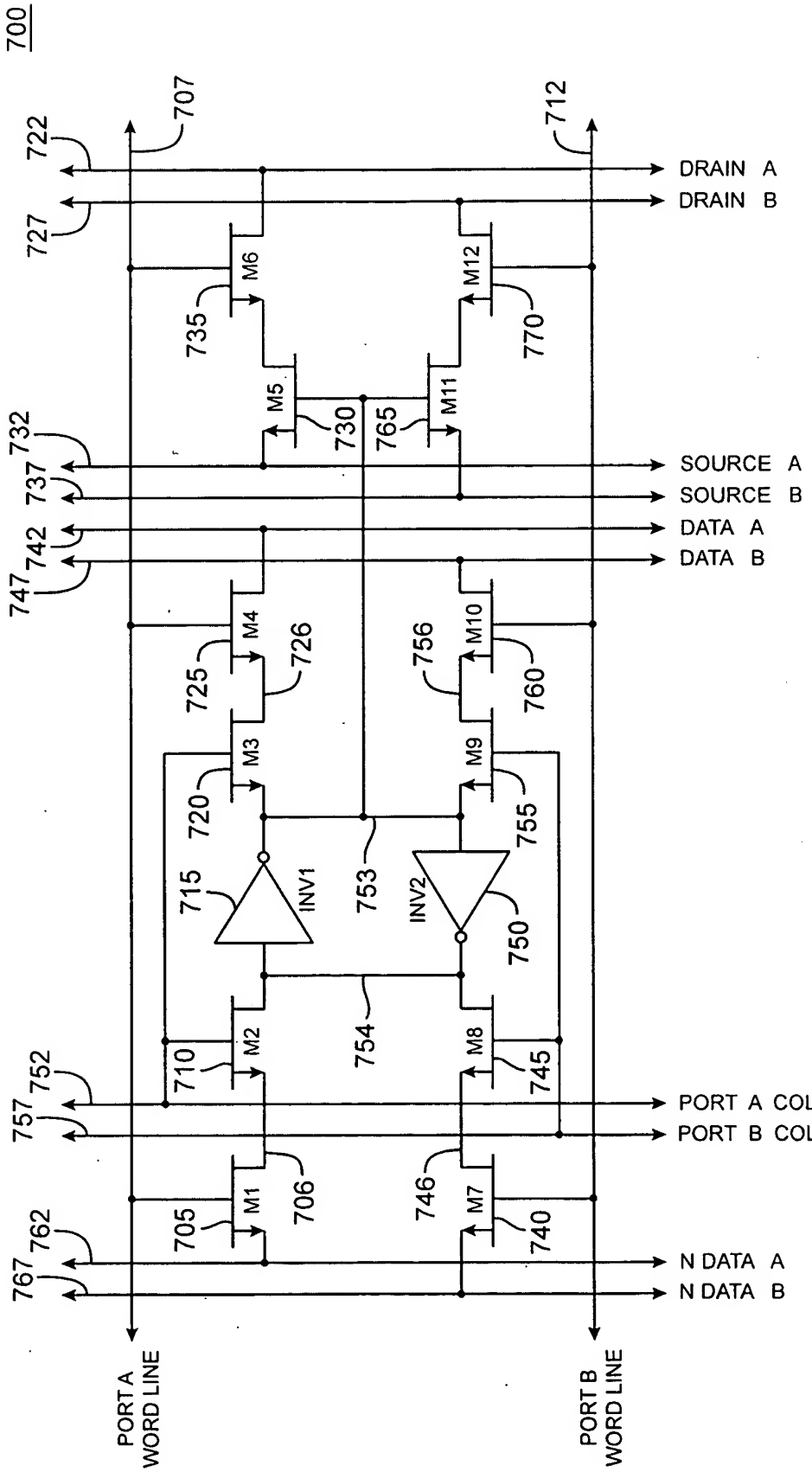


FIG. 7

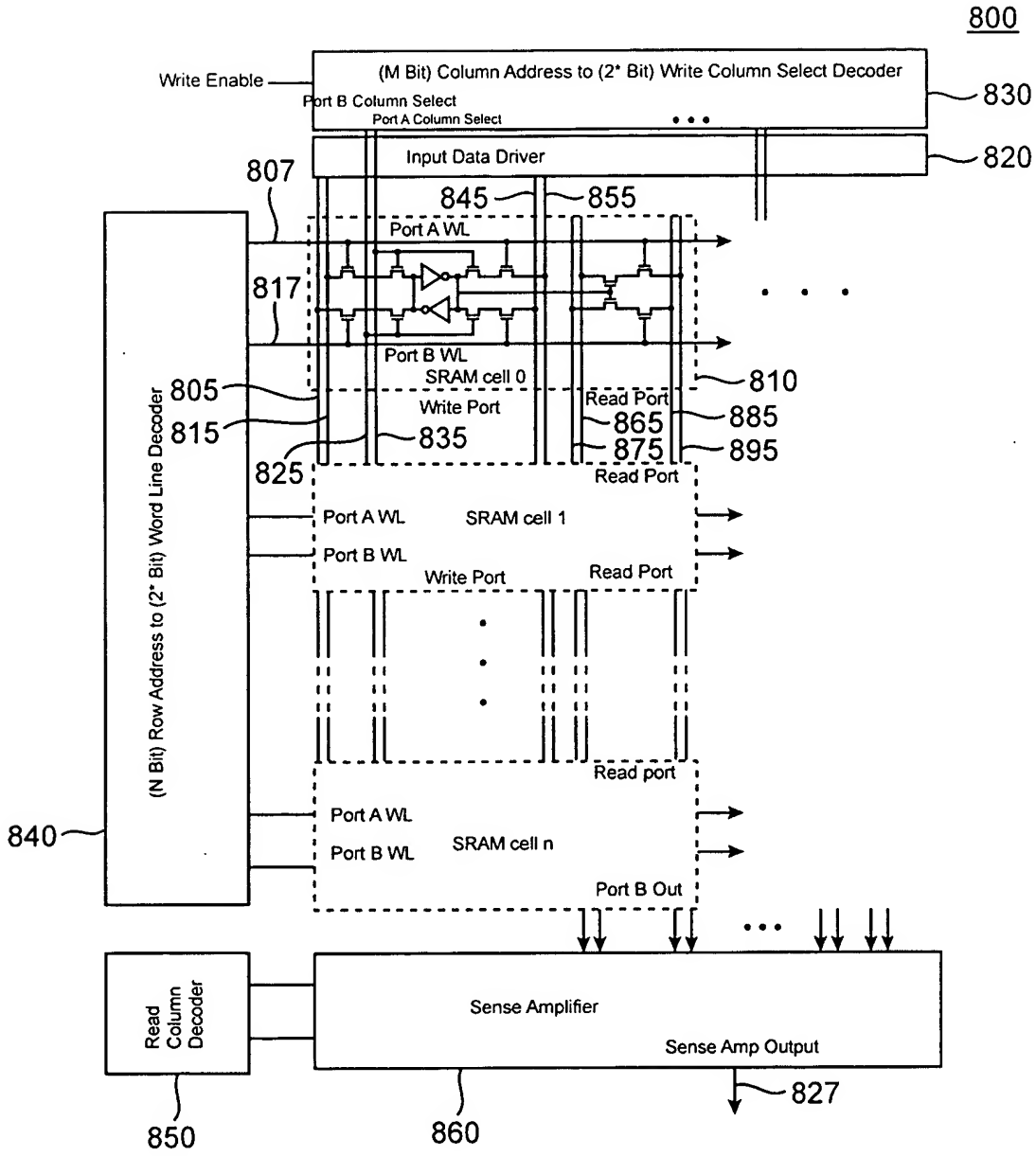


FIG. 8

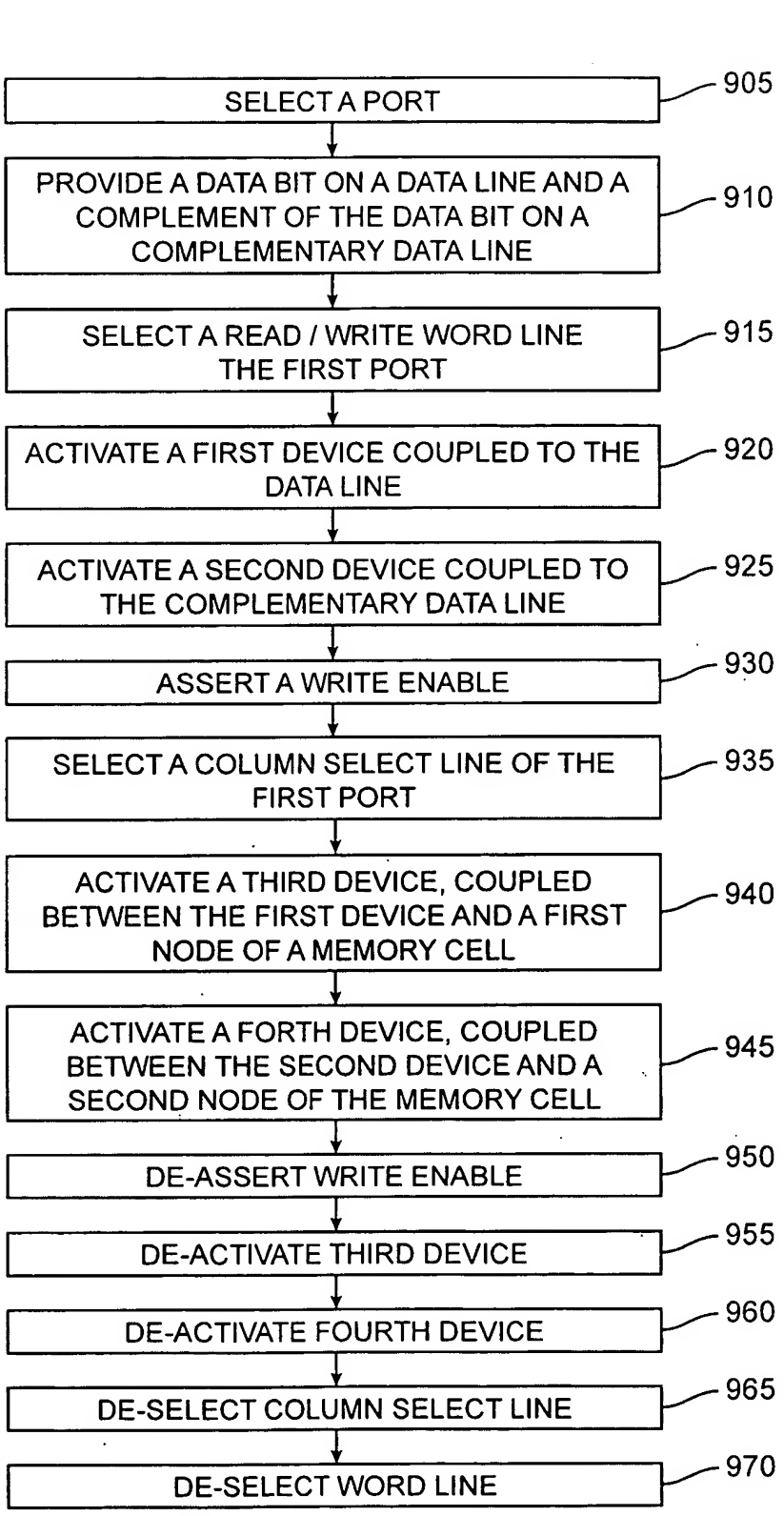


FIG. 9

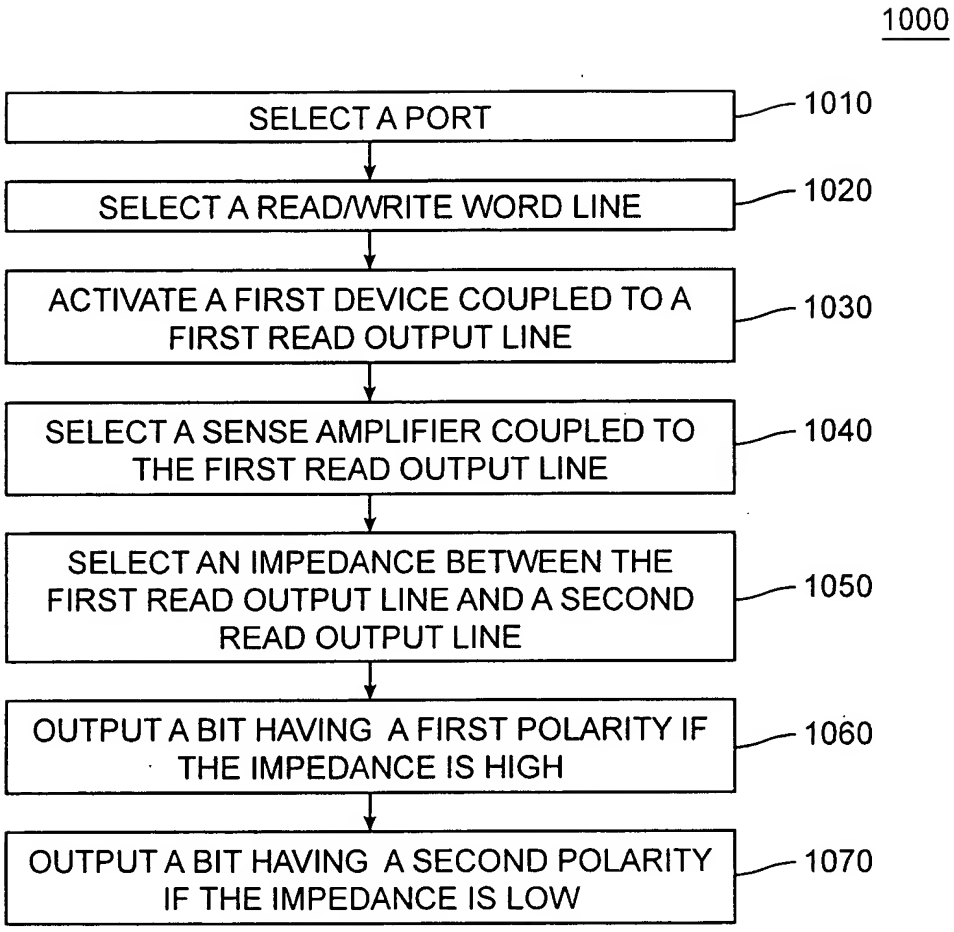


FIG. 10

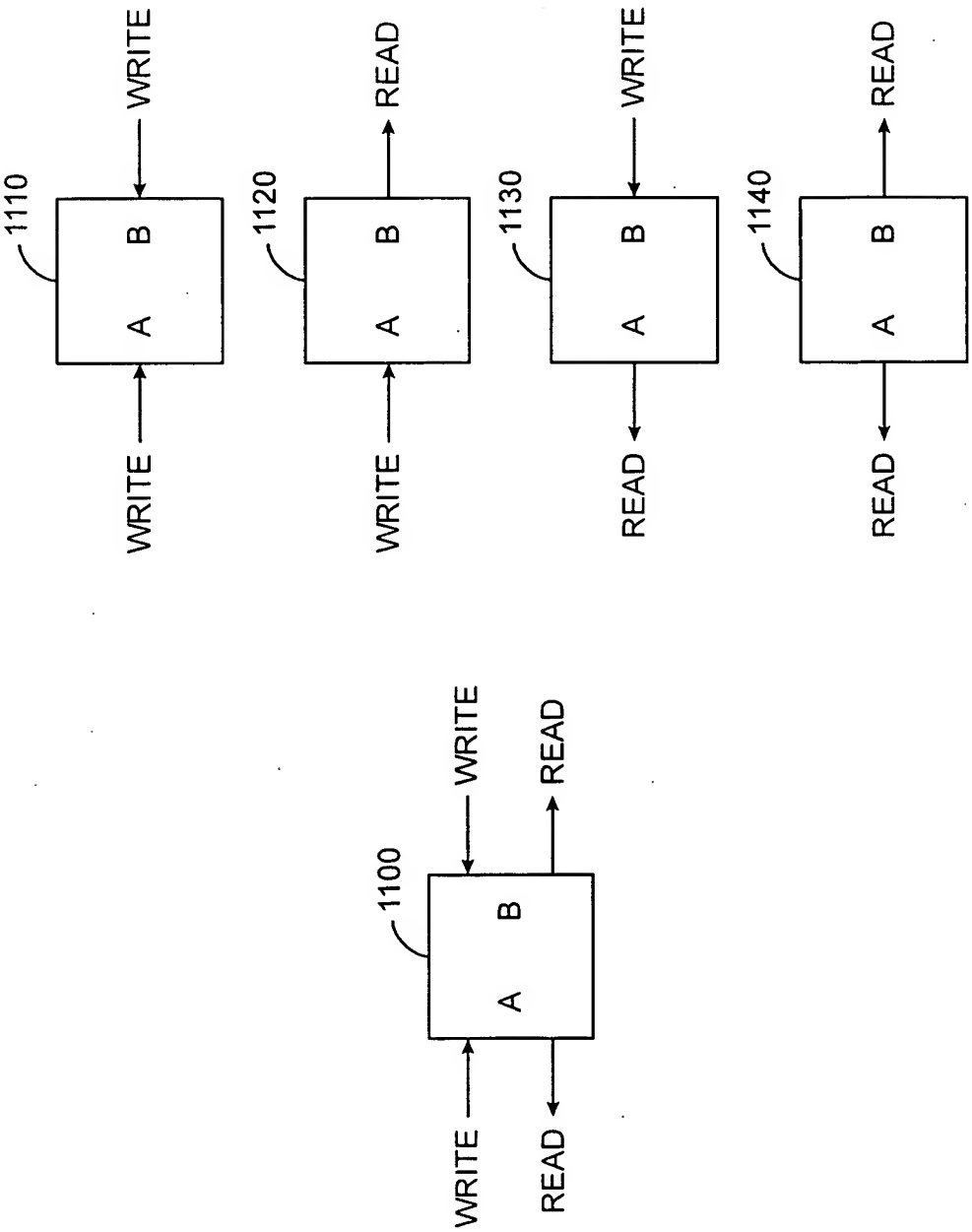


FIG. 11

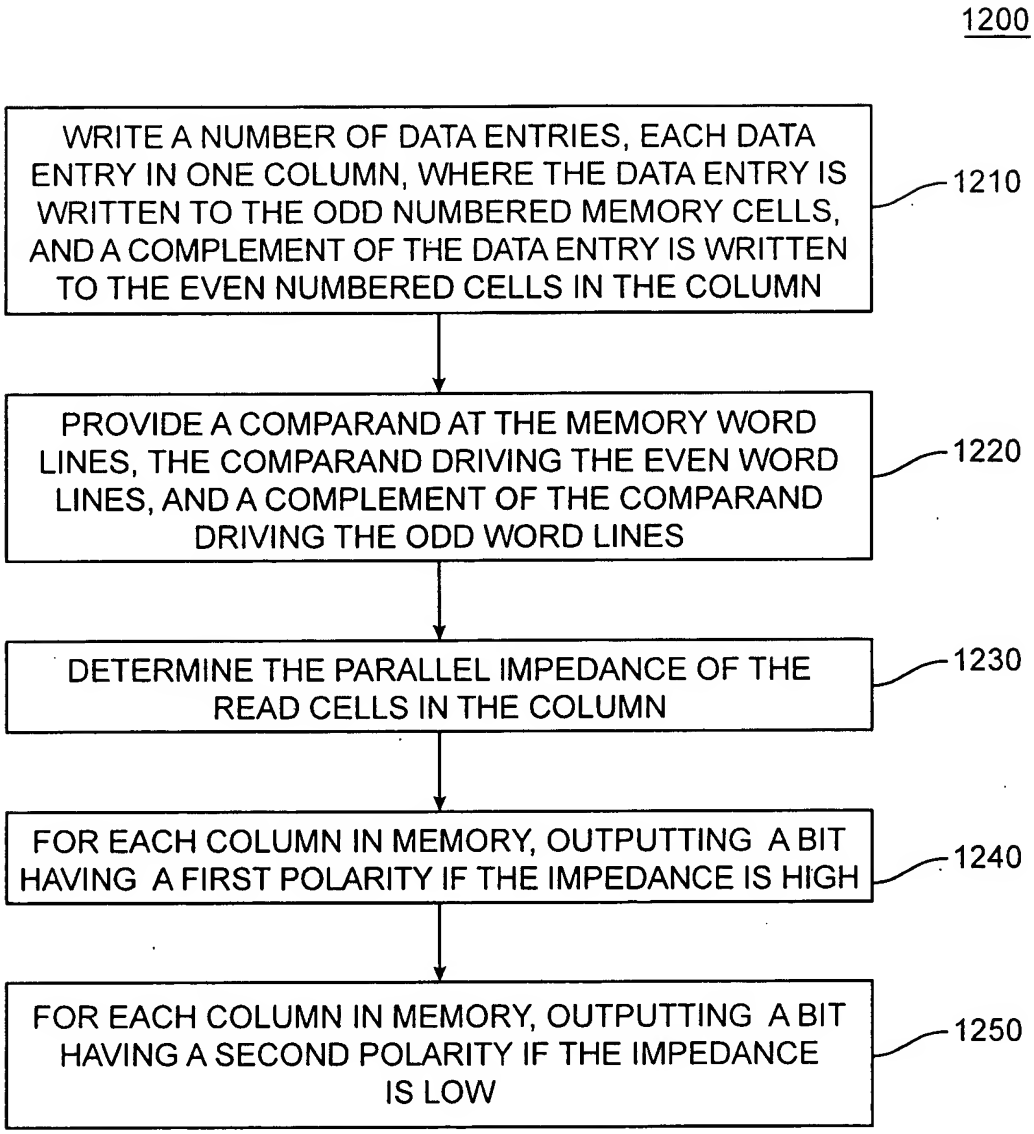


FIG. 12

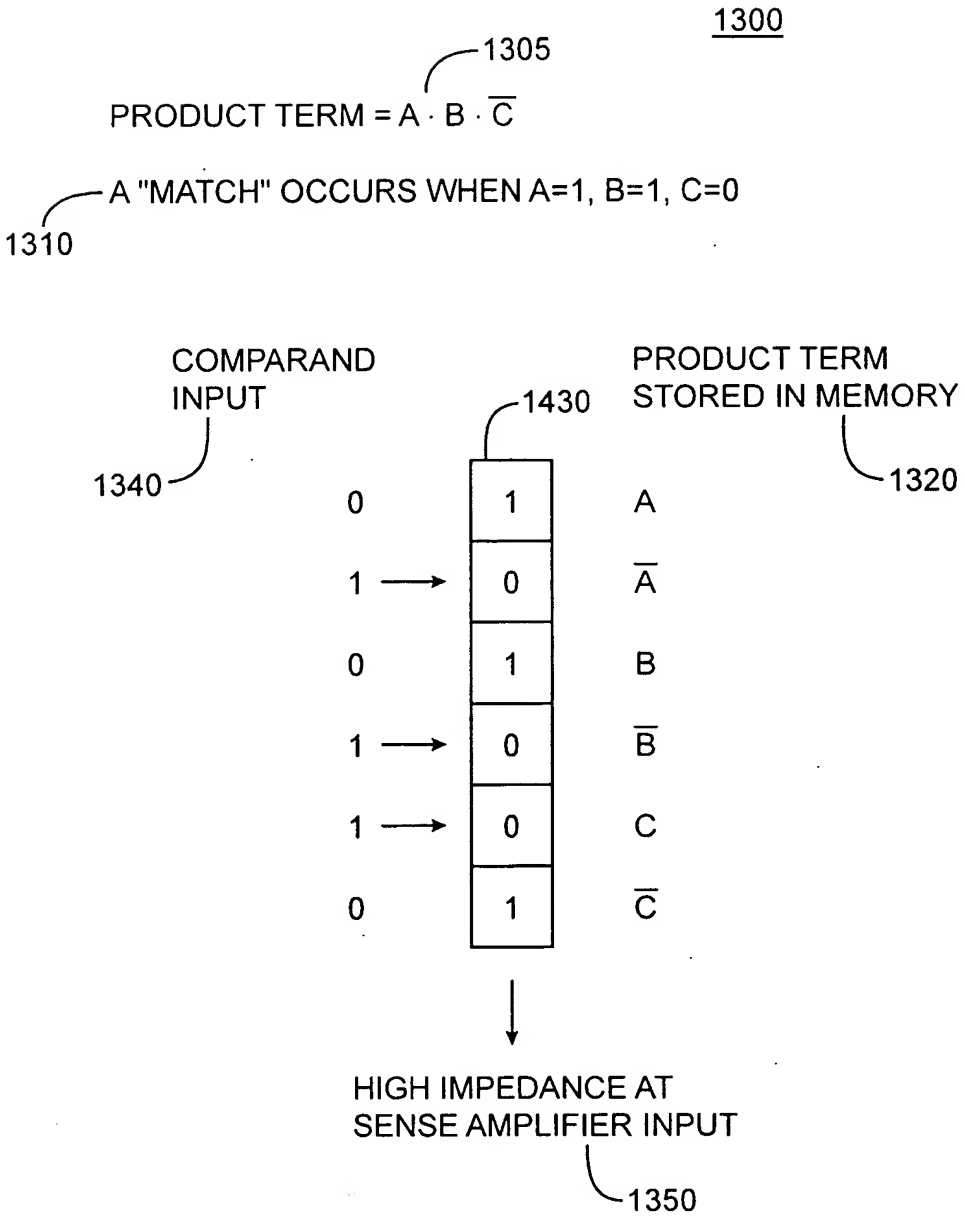


FIG. 13

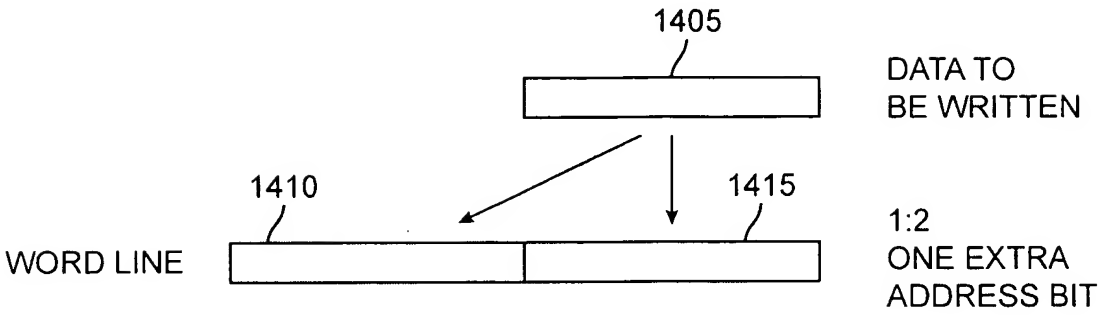


FIG. 14A

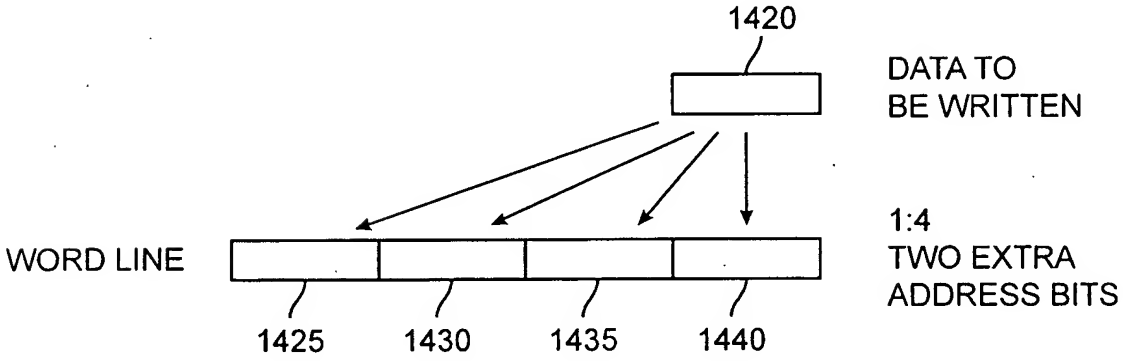


FIG. 14B

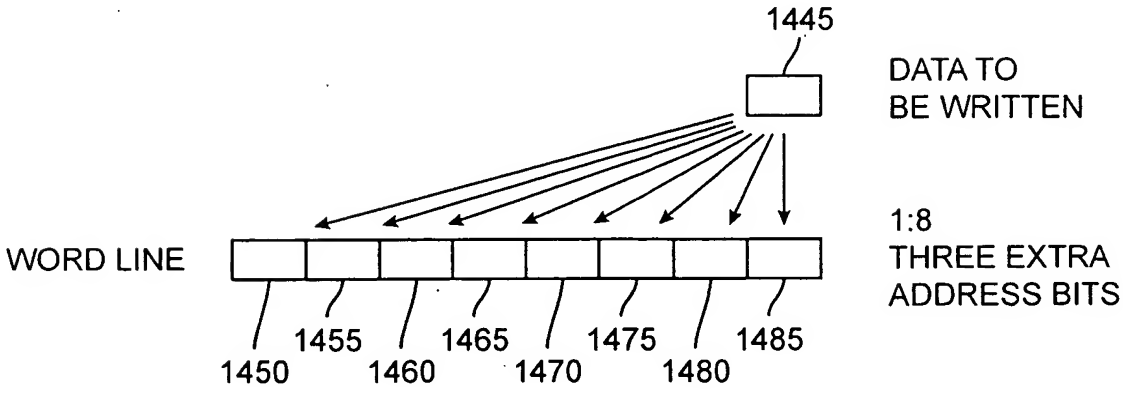


FIG. 14C

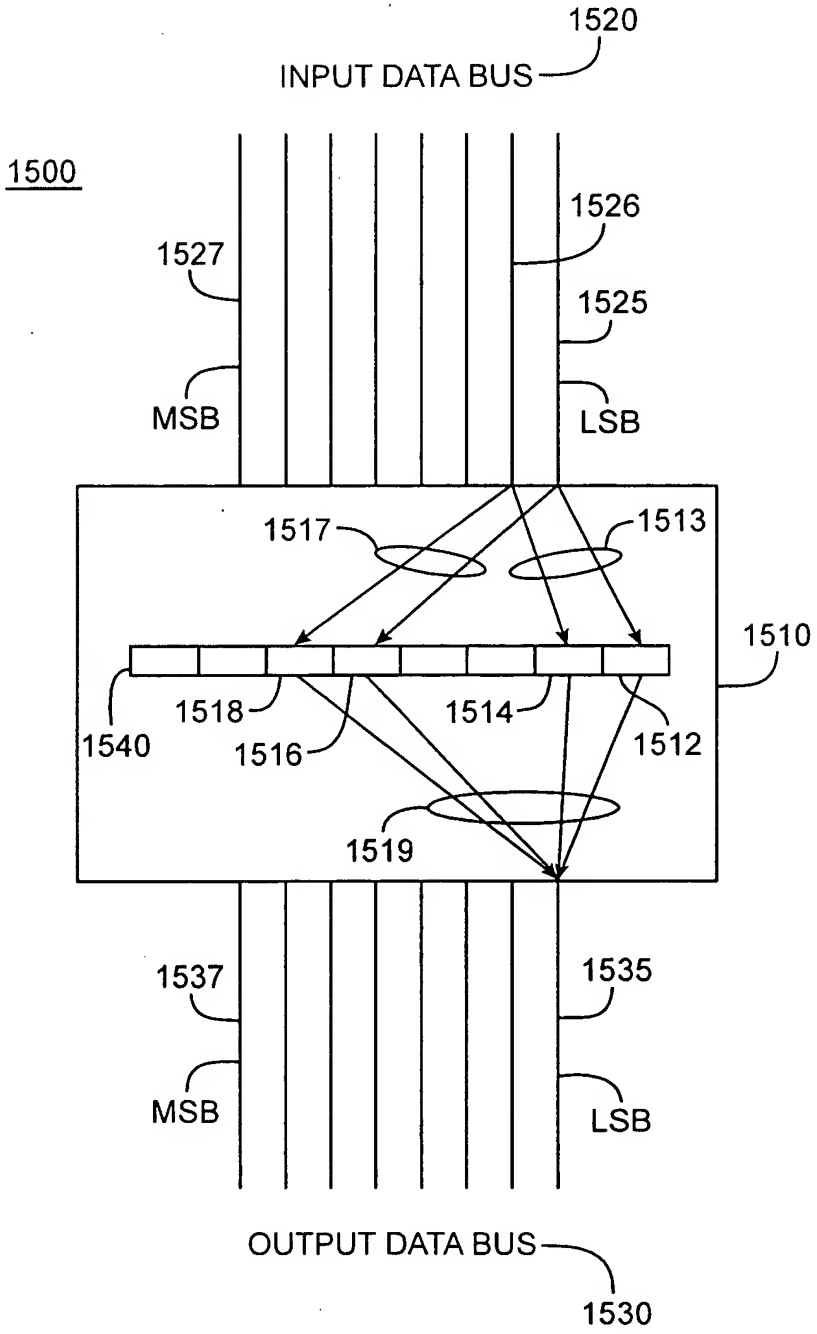


FIG. 15

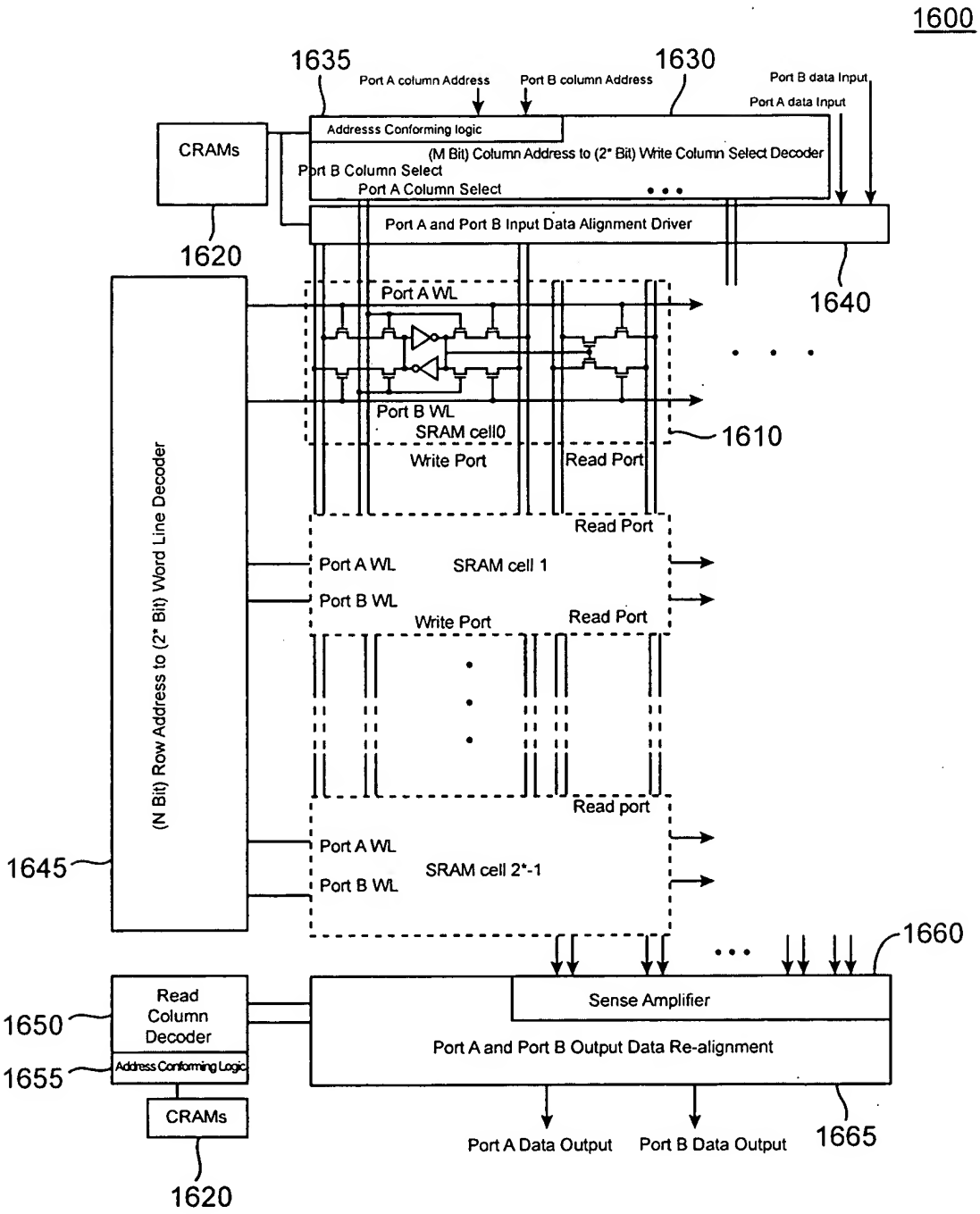


FIG. 16

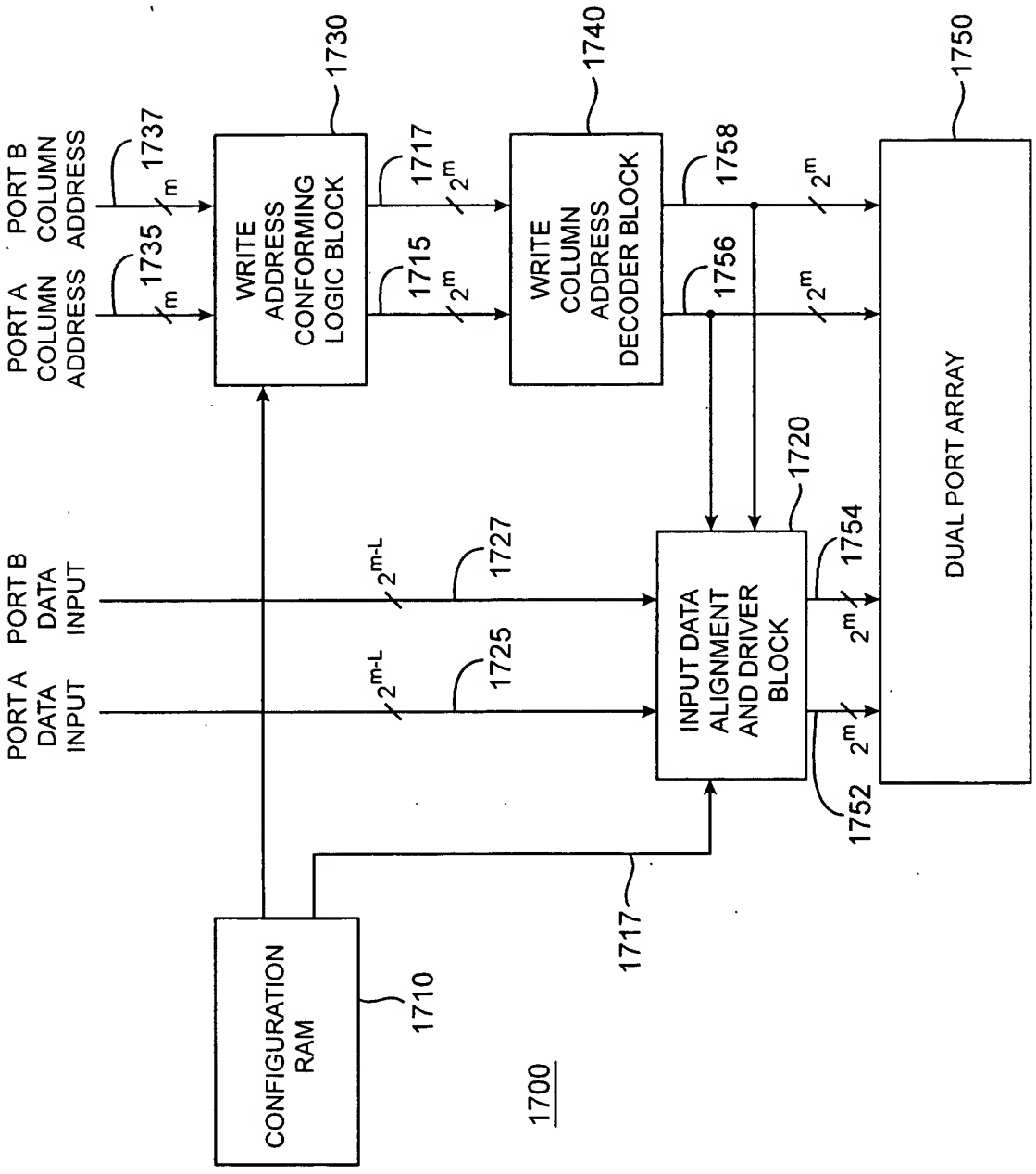


FIG. 17

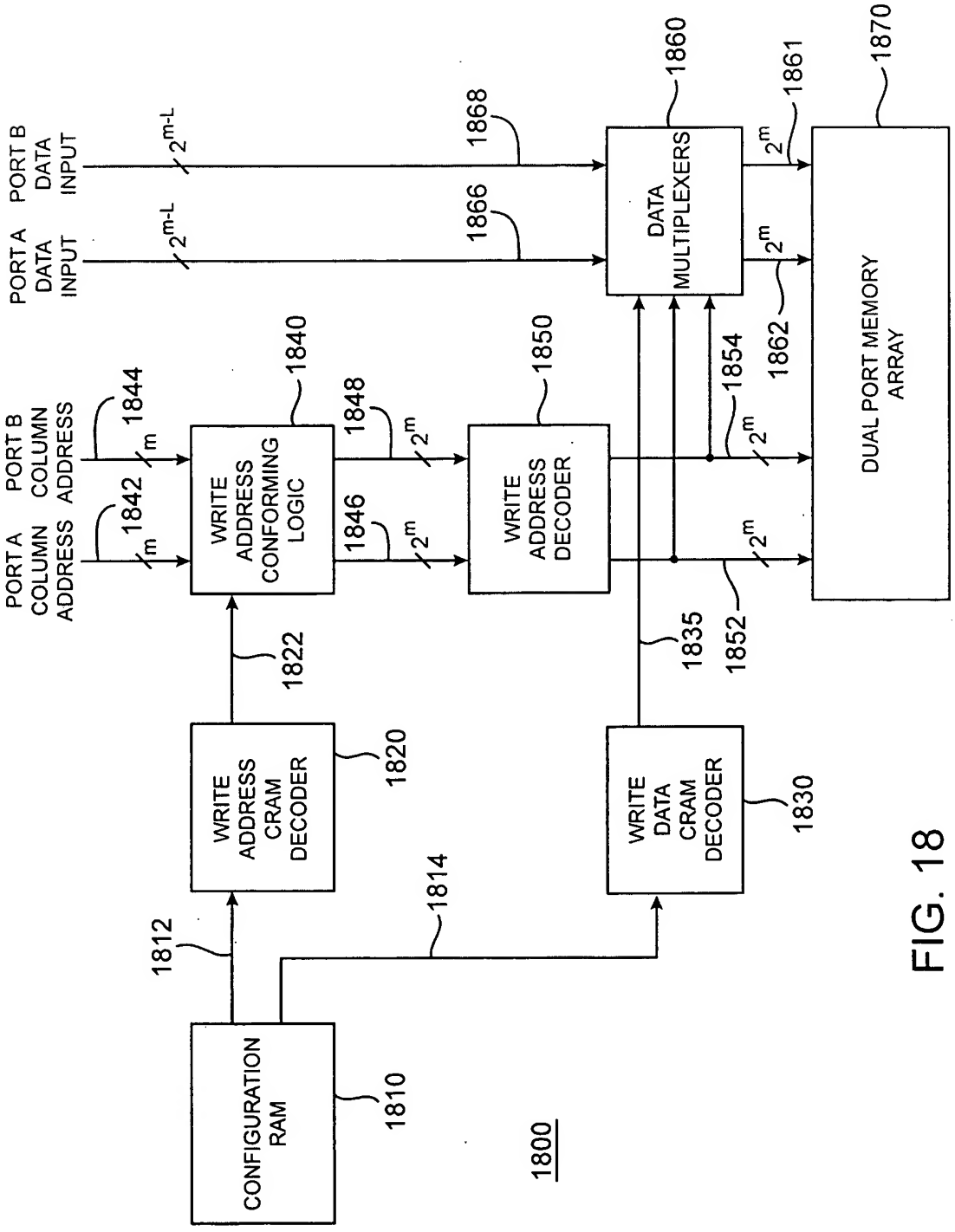


FIG. 18

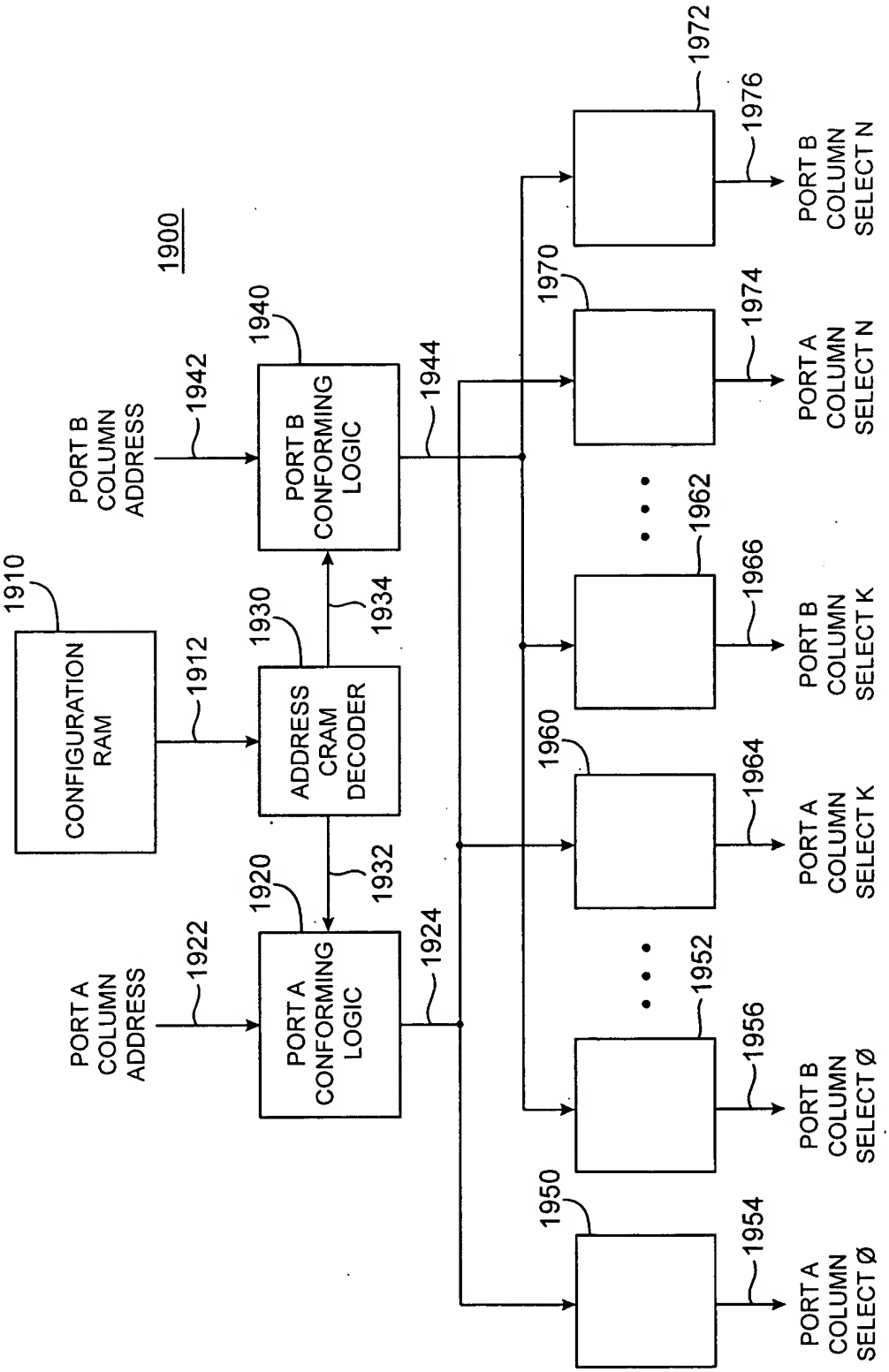


FIG. 19

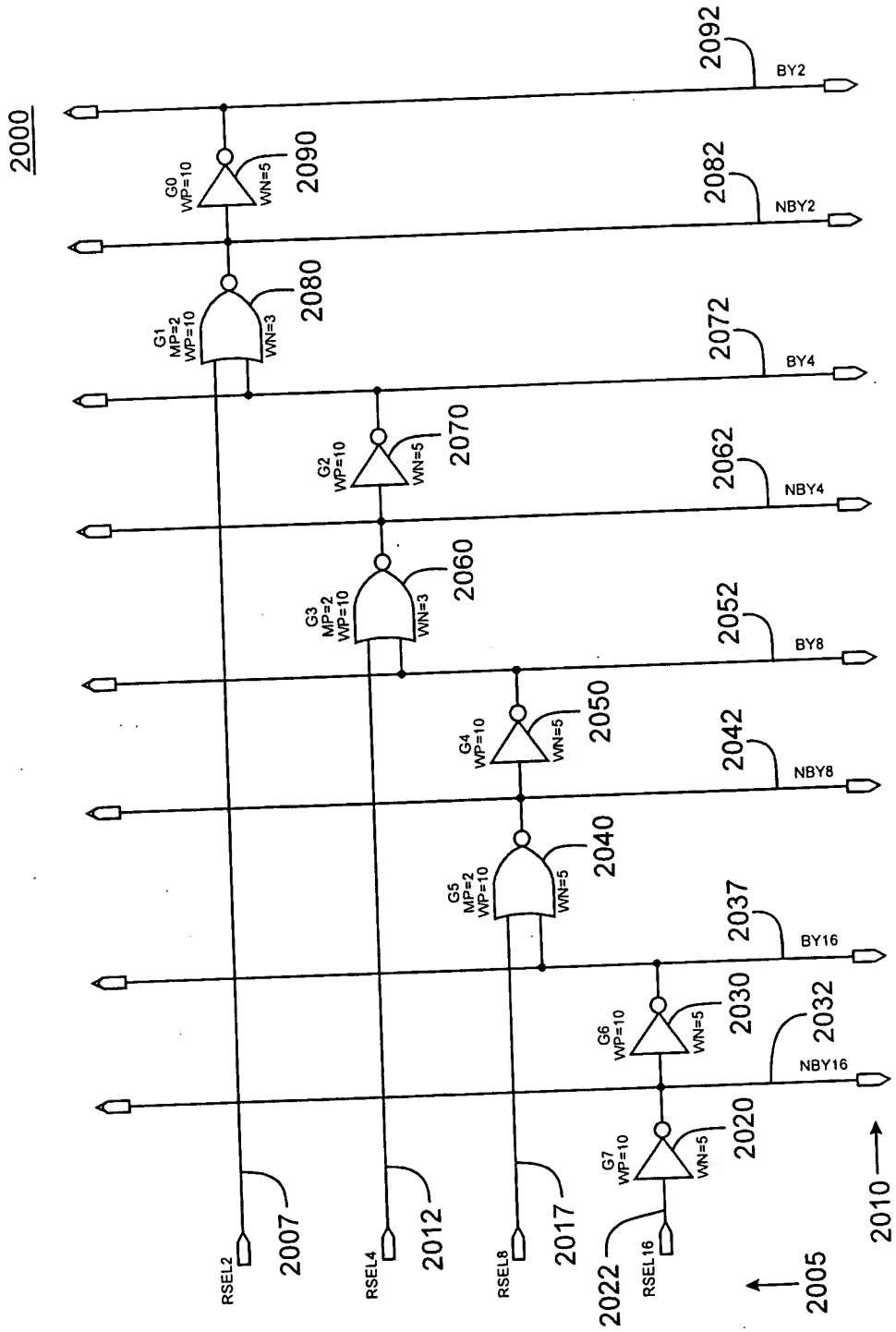


FIG. 20

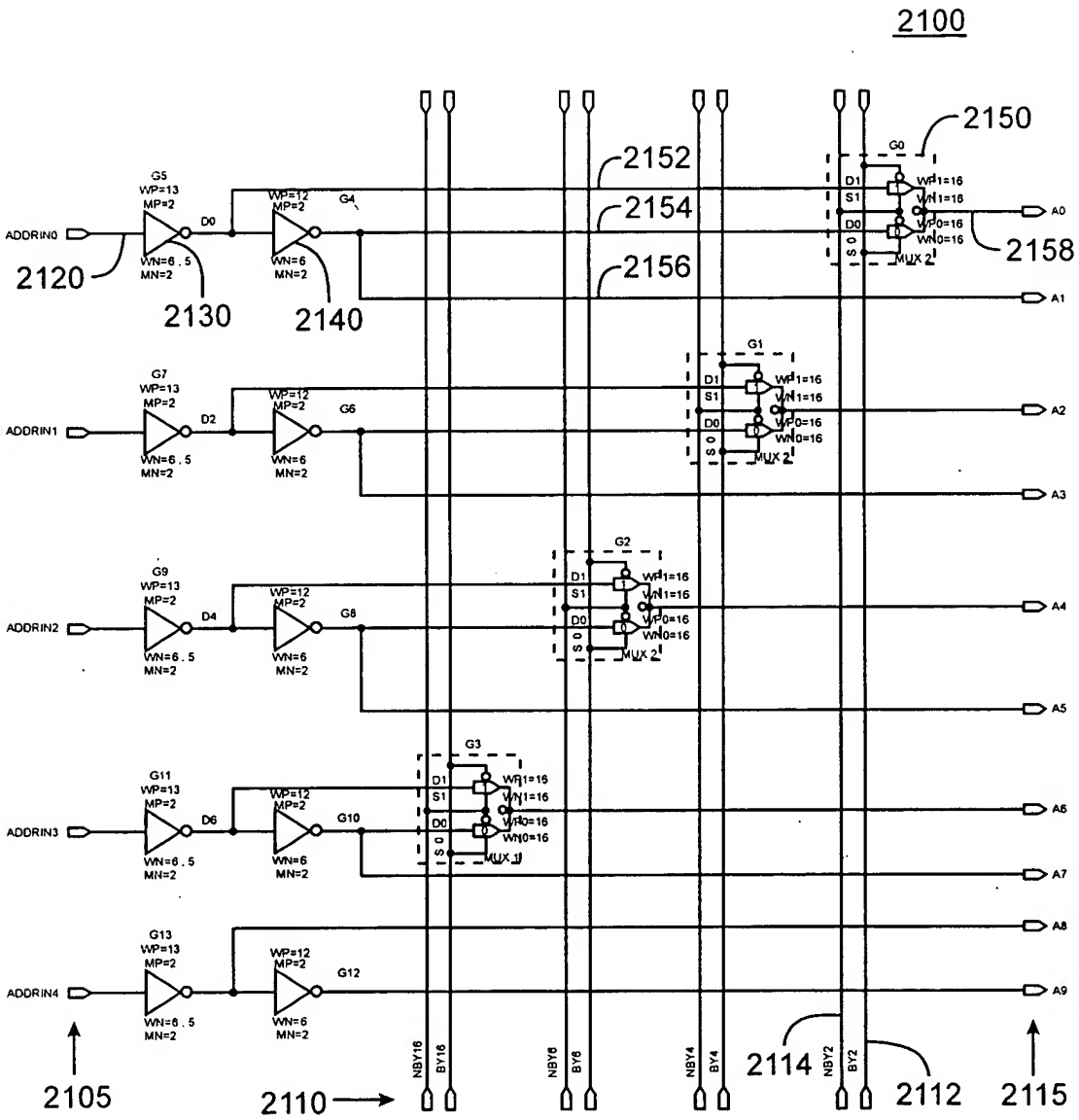
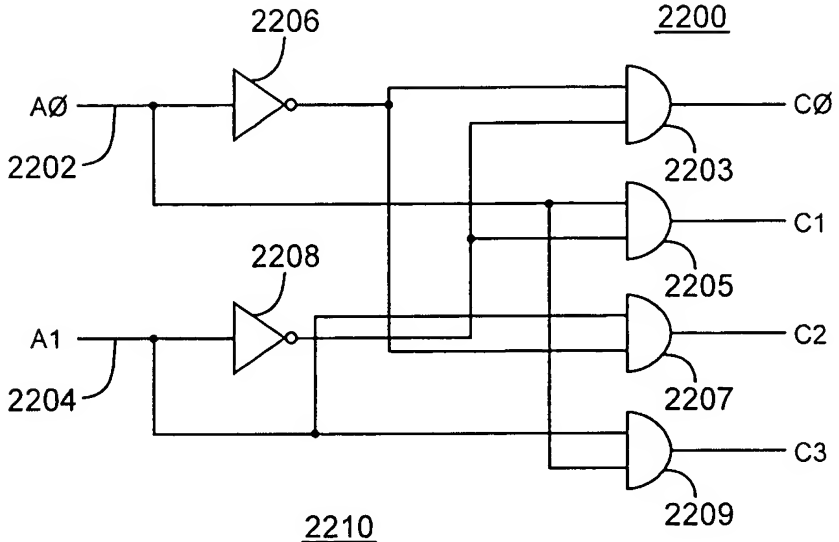


FIG. 21

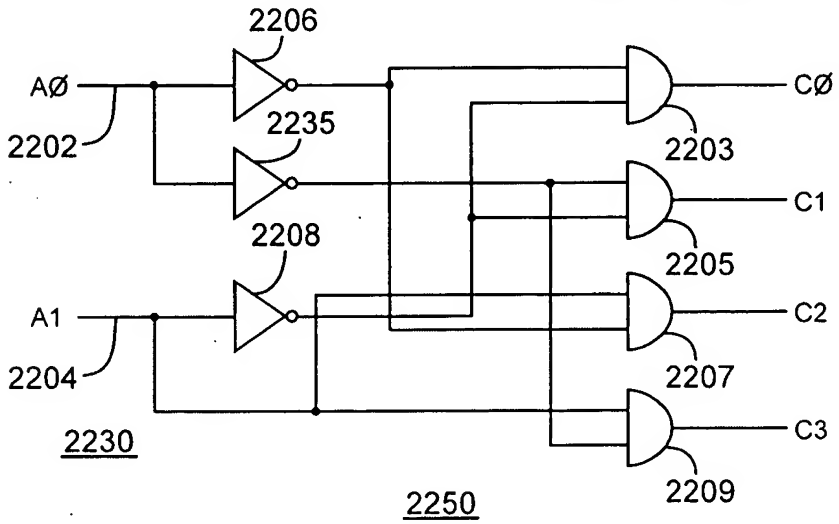


2210

A1	AØ	CØ	C1	C2	C3
0	0	1	0	0	0
0	1	0	1	0	0
1	0	0	0	1	0
1	1	0	0	0	1

2220

$C\emptyset = \overline{A1} \cdot \overline{A\emptyset}$
$C1 = \overline{A1} \cdot A\emptyset$
$C2 = A1 \cdot \overline{A\emptyset}$
$C3 = A1 \cdot A\emptyset$



2240

$C\emptyset = \overline{A1} \cdot \overline{A\emptyset}$
$C1 = \overline{A1} \cdot \overline{A\emptyset}$
$C2 = A1 \cdot \overline{A\emptyset}$
$C3 = A1 \cdot \overline{A\emptyset}$

2250

A1	AØ	CØ	C1	C2	C3	
0	0	1	1	0	0	2252
0	1	0	0	0	0	2254
1	0	0	0	1	1	2256
1	1	0	0	0	0	2258

FIG. 22

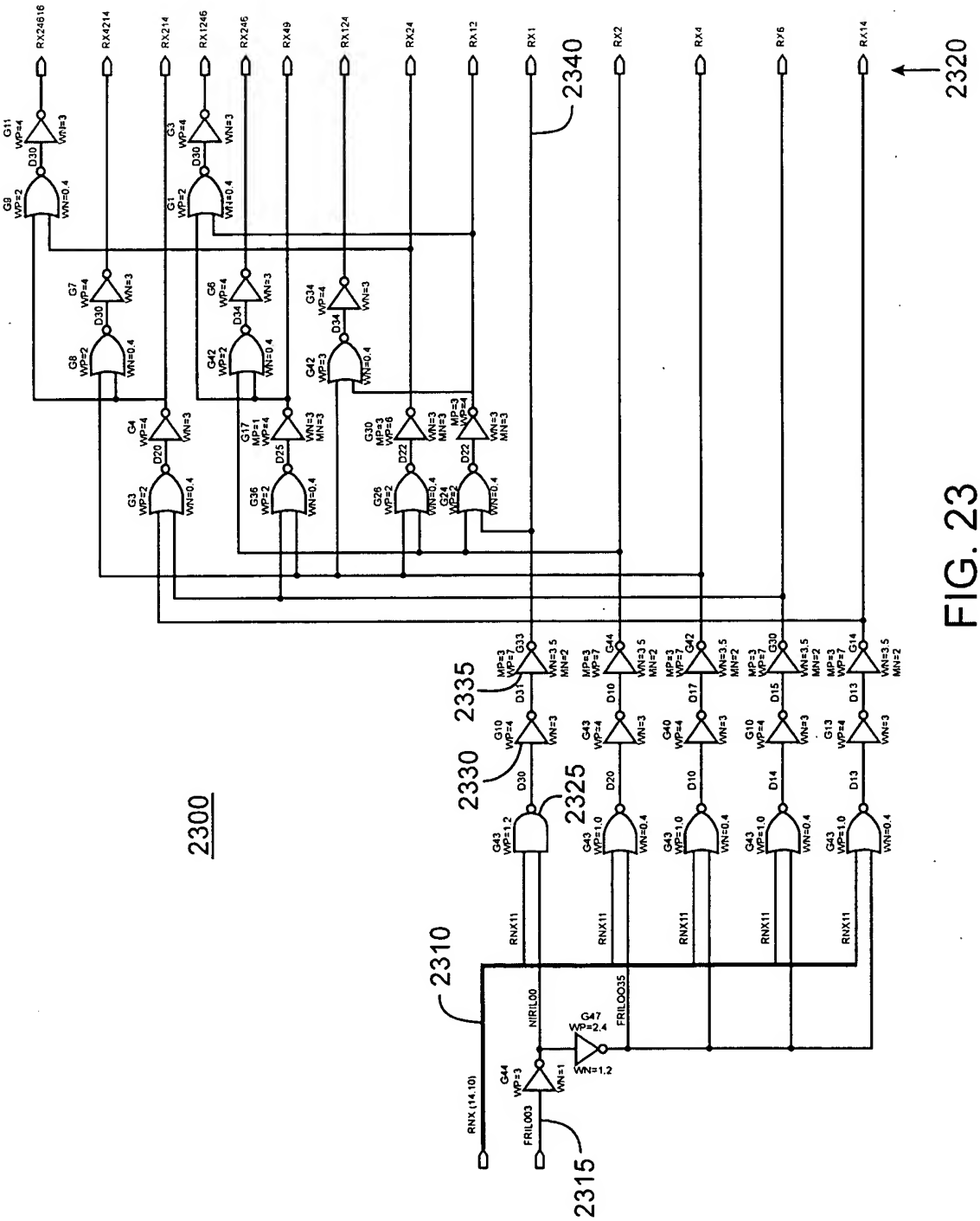
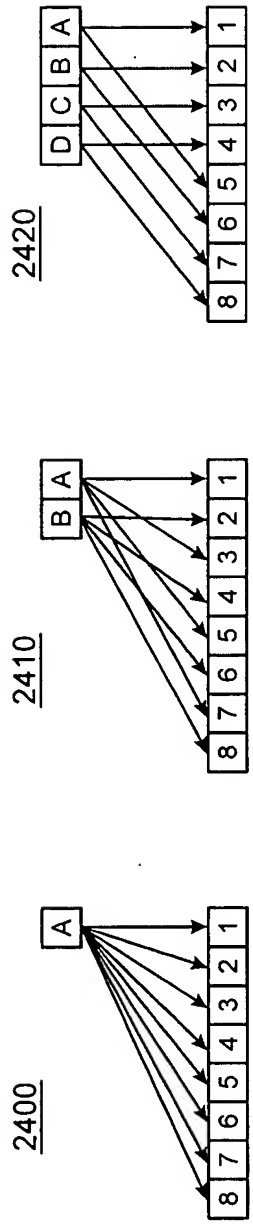


FIG. 23



2430

MUX (2432)	# bits / word (2434) 1	2	4	INPUTS (2436)	TYPE MUX (2438)
1	A	A	A	A	1:1
2	A	B	B	A,B	2:1
3	A	A	C	A,C	2:1
4	A	B	D	A,B,D	3:1
5	A	A	A	A	1:1
6	A	B	B	A,B	2:1
7	A	A	C	A,C	2:1
8	A	B	D	A,B,D	3:1

2440

MUX (2442)	OUTPUTS (2444)	TYPE MUX (2446)
A	8,7,6,5,4,3,2,1	1:8
B	8,6,4,2	1:4
C	7,3	1:2
D	8	1:1

FIG. 24

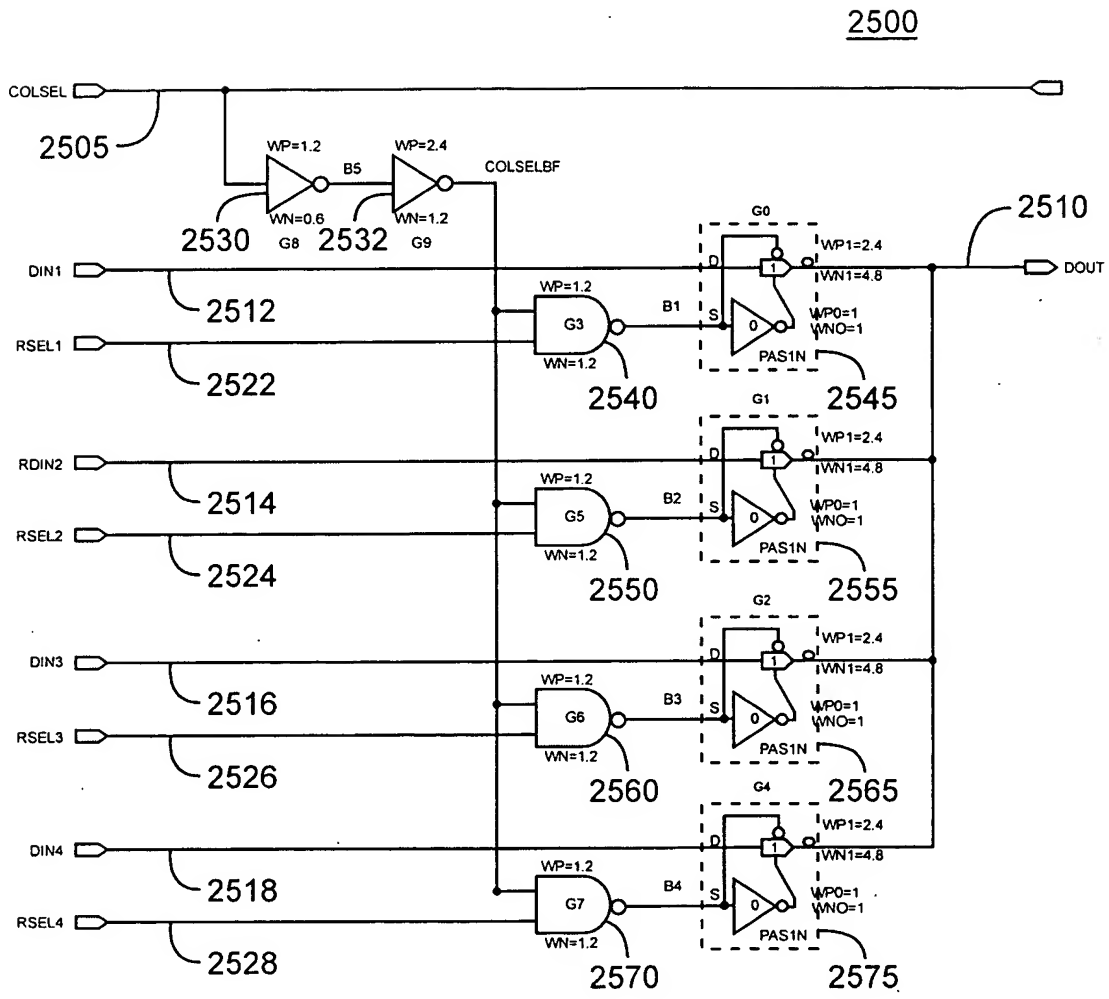


FIG. 25

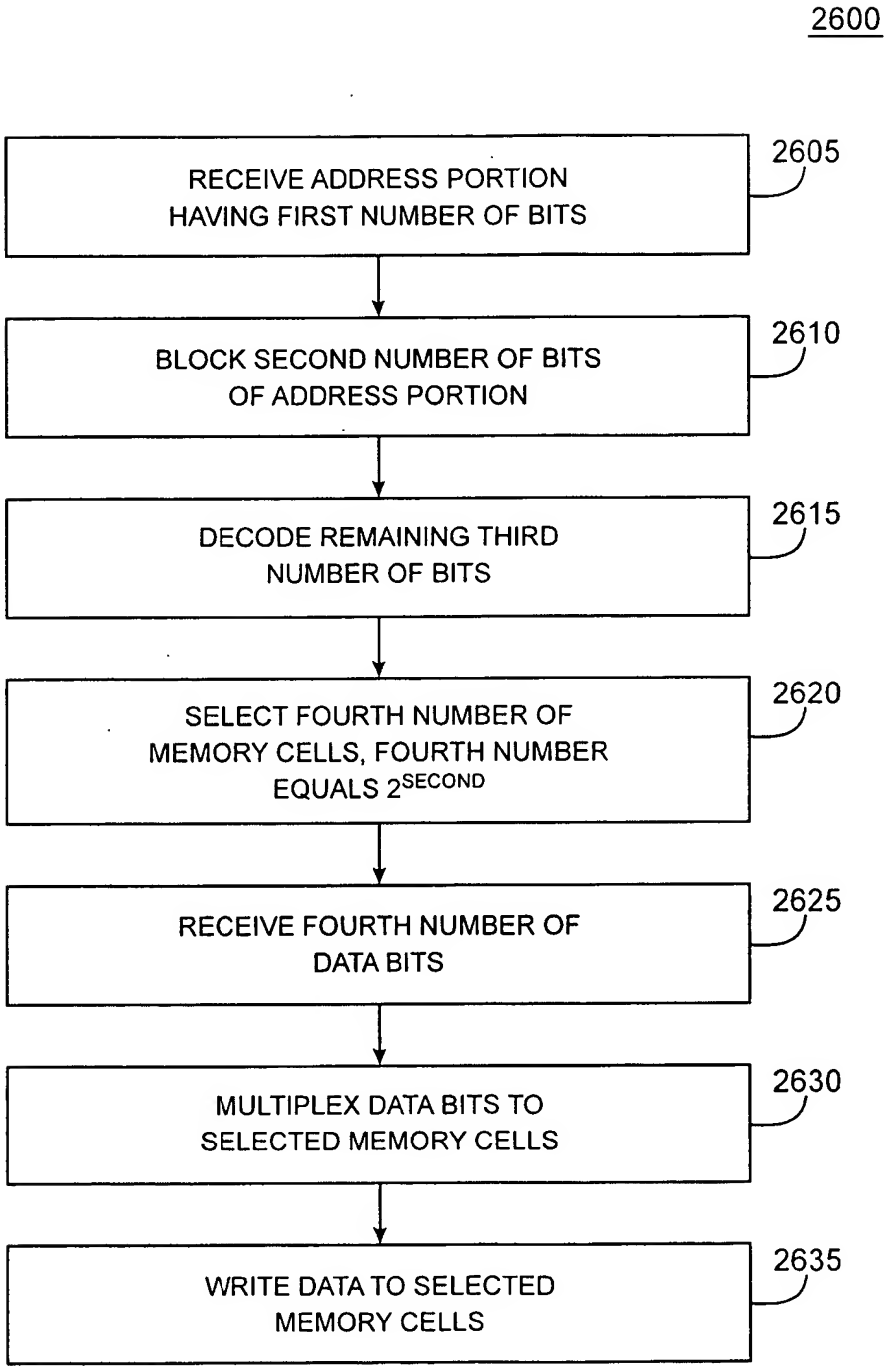


FIG. 26

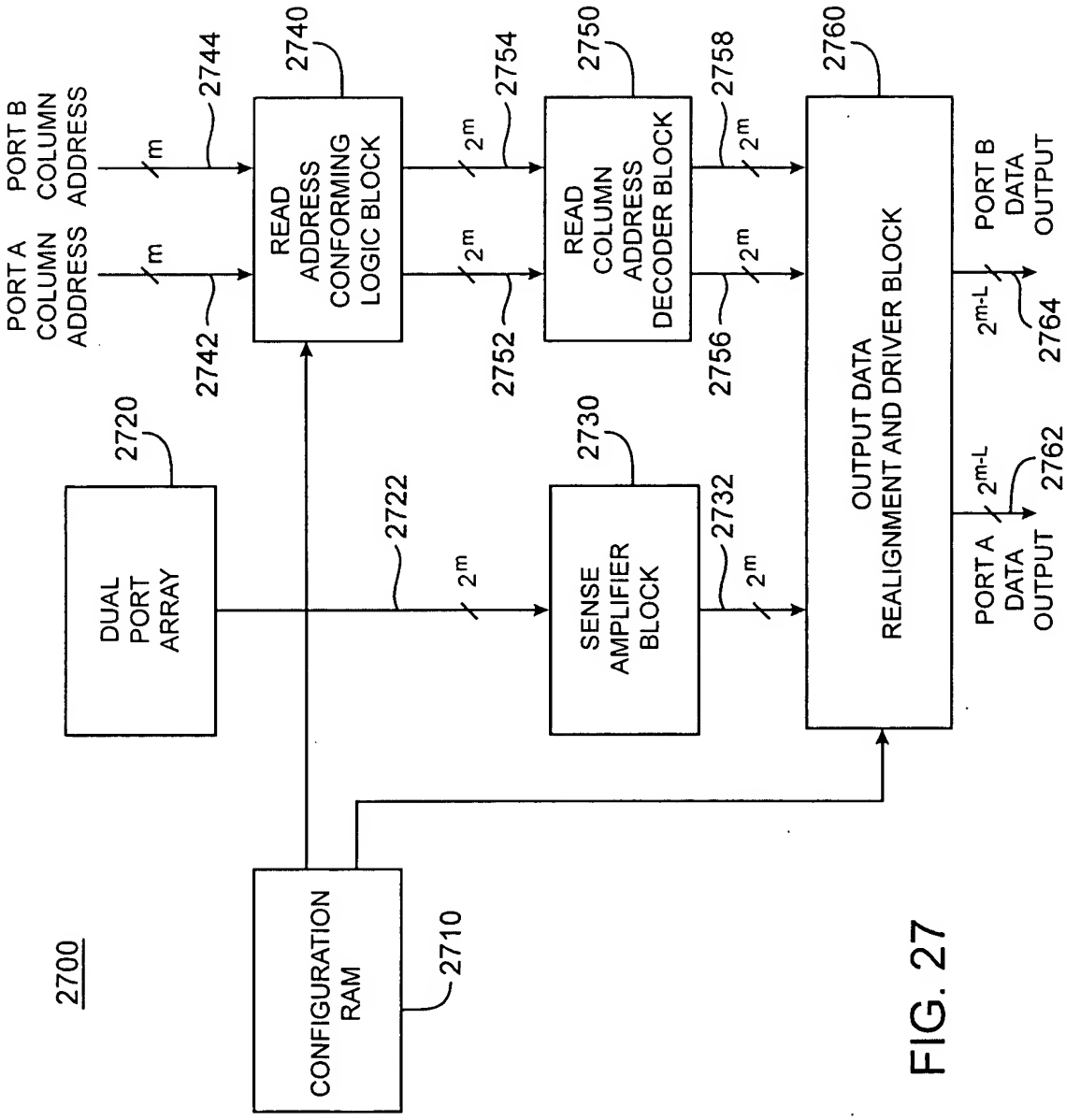


FIG. 27

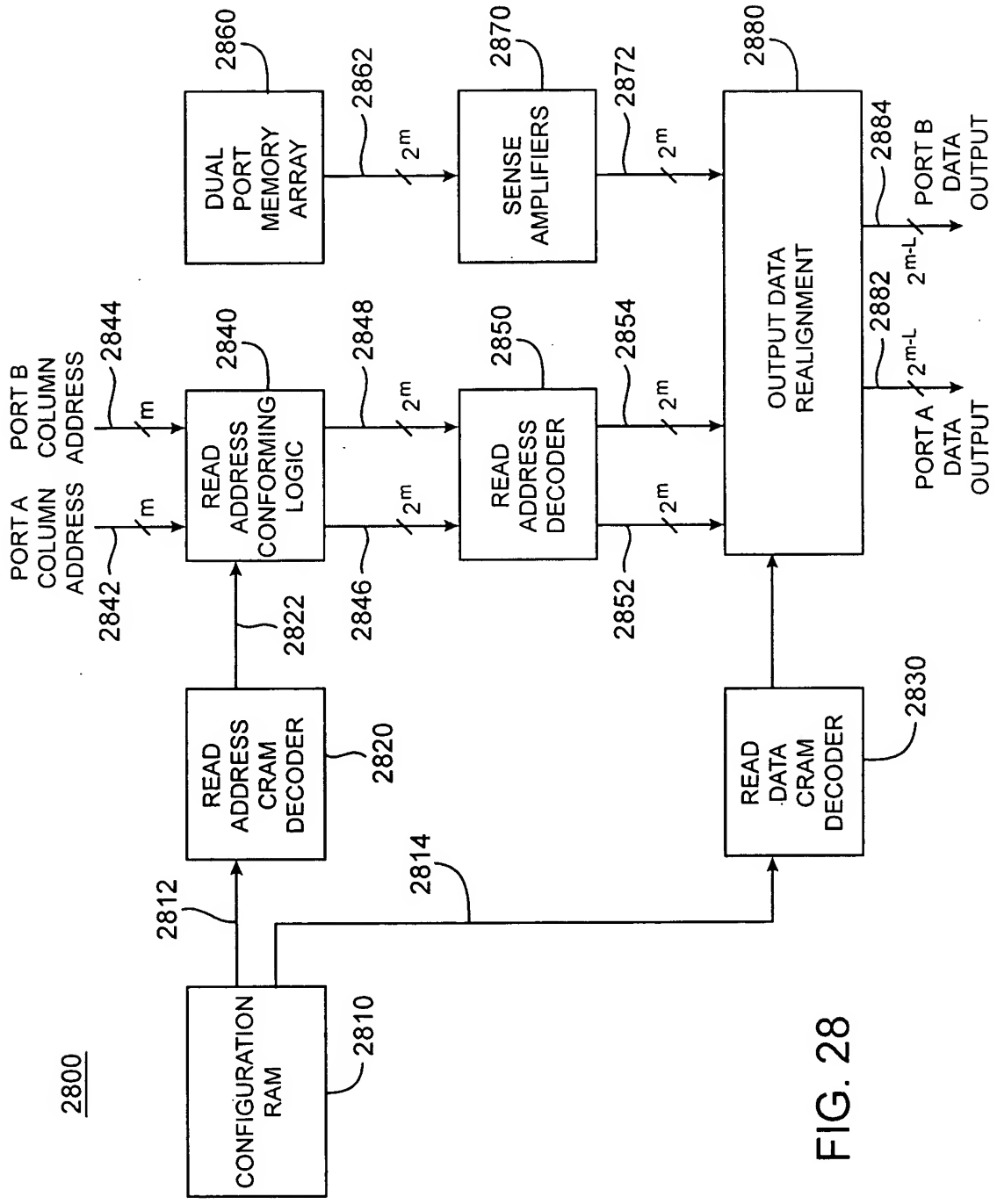
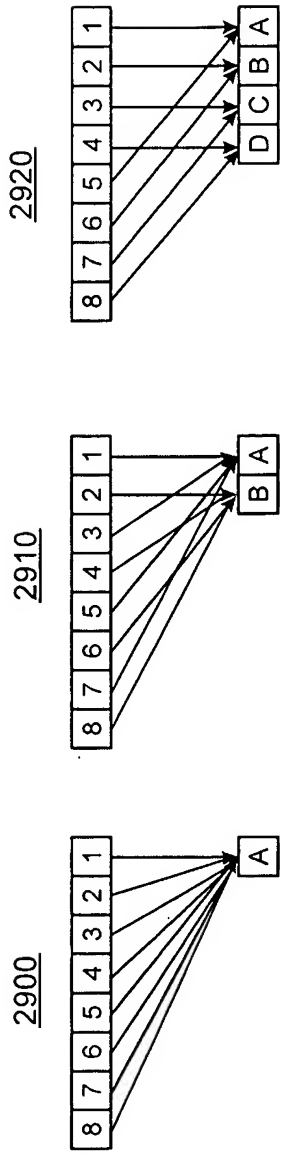


FIG. 28



2930

MUX (2932)	# bits / word (2934) 1	2	4	INPUTS (2936)	TYPE MUX (2938)
1	A	A	A	A	1:1
2	A	B	B	A,B	1:2
3	A	A	C	A,C	1:2
4	A	B	D	A,B,D	1:3
5	A	A	A	A	1:1
6	A	B	B	A,B	1:2
7	A	A	C	A,C	1:2
8	A	B	D	A,B,D	1:3

2940

MUX (2942)	INPUTS (2944)	TYPE MUX (2946)
A	8,7,6,5,4,3,2,1	8:1
B	8,6,4,2	4:1
C	7,3	2:1
D	8	1:1

FIG. 29

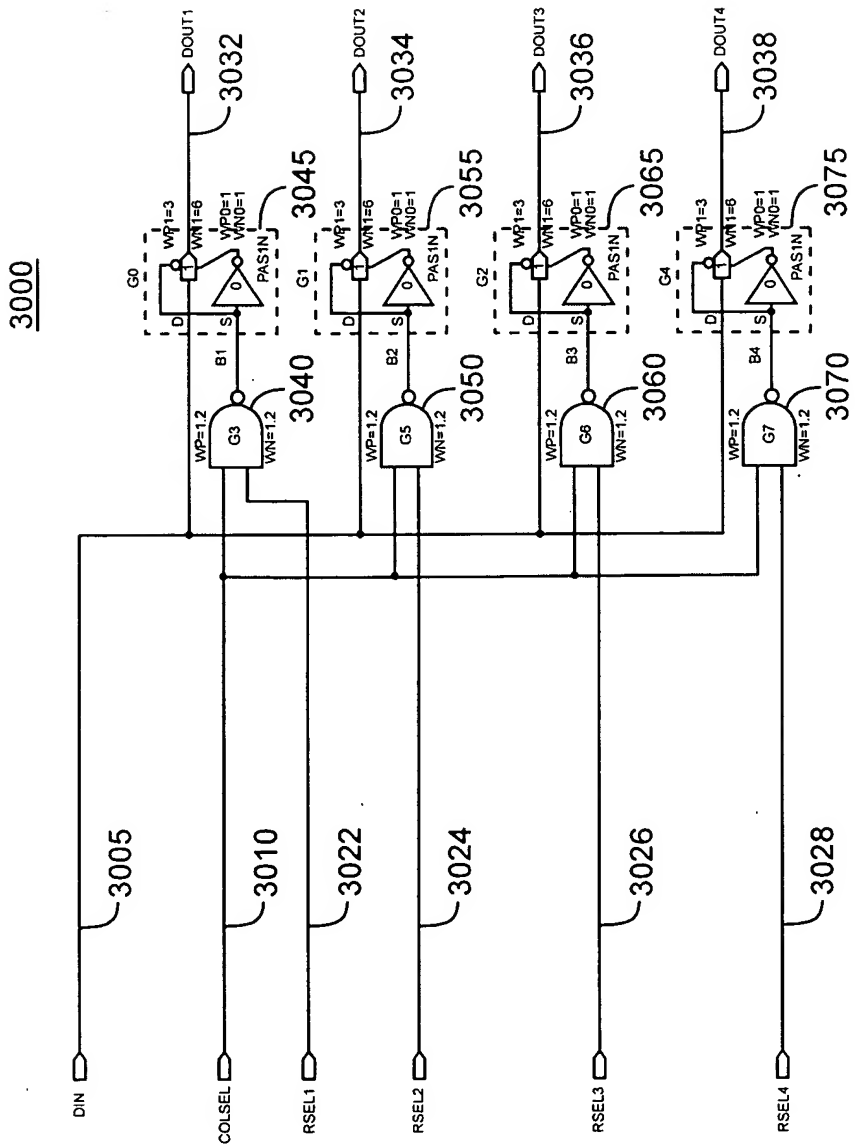


FIG. 30

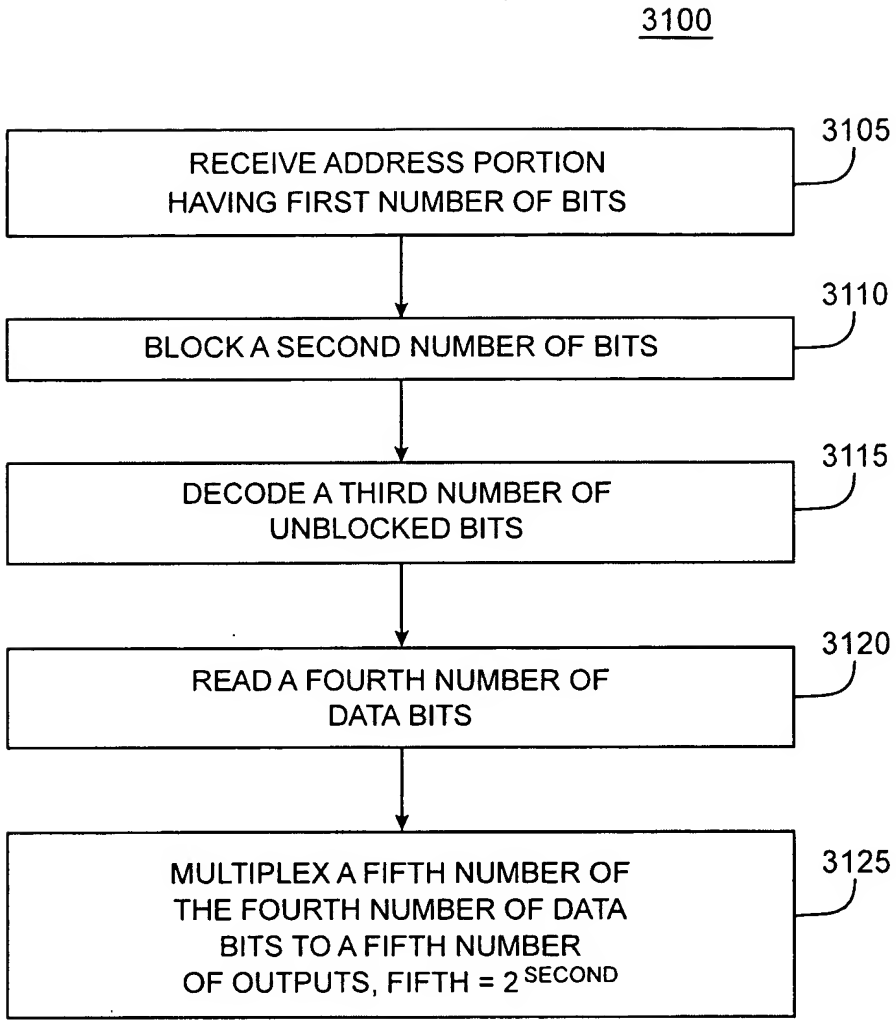


FIG. 31